California's Pre-Rinse Spray Valve Replacement Program – Phase 2 (2004-2005)

Pre-Rinse Spray Valve Specification – Version 2.0-2004

Pre-rinse spray valves must meet three criteria in order to be qualified for installation in the California Urban Water Conservation Council's statewide Pre-Rinse Spray Valve Replacement Program. Each valve installed under the Rinse & Save program shall:

1) Include a minimum one-year manufacturer's warranty on the product

2) Be certified by an independent and recognized third party certifier as meeting the requirements of the standard ANSI/ASME A112.18.1-2003.

3) When tested in accordance with ASTM Standard Test Method F2324-03[1], meet performance requirements as follows:

   (a) Flow Rate: Under all settings, the pre-rinse spray valve shall demonstrate a flow rate that does not exceed 1.6 ± 0.1 gpm (6.0 ± 0.4 lpm) when tested with a flowing water pressure of 60 ± 2 psi at a water temperature of 120 ± 4°F (49 ± 2°C).[2] The flow rate shall be an average value determined by testing three different production samples of the spray valve in accordance with ASTM F2324-03. A removable[3] flow-restrictor may not be used to achieve the required flow rate.

   Note: The flex hose used for the testing of the spray valves must have a minimum flow rate of 7.0 gpm (26 lpm) @ 60 psi when tested without a spray valve attached.

   (b) Cleanability: The pre-rinse spray valve must pass a cleanability test in accordance with ASTM F2324-03. This test consists of cleaning a plate of dried tomato sauce in less than 21 seconds with 120 ± 4°F (49 ± 2°C) water at a specified distance from the plate. This test is performed at 60 ± 2 psi of flowing water pressure. The cleanability test is performed on sixty plates and the reported result is an average of the results obtained with each of the sixty plates.

   Note: The cleanability test for spray valves ensures that the valve will perform satisfactorily in "real world" food service applications.

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[1] American Society of Testing and Materials, 100 Bar r Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428

[2] For those pre-rinse spray valves that offer several flow rates (through adjustment by the operator), no flow rate shall exceed that specified in this paragraph.

[3] A flow restrictor that may be easily removed by the operator in order to achieve a flow rate in excess of that specified in this paragraph shall not be permitted.

Low-Flow Pre-Rinse Spray Valves That Meet the Program Specification – Version 2.0

December 14, 2004

The following pre-rinse spray valves have met the performance and flow requirements of the Program specification and qualify for installation as a replacement for high-flow valves:

Manufacturer & Model	Model Number
Fisher Manufacturing Co. - Ultra	2949
Niagara Conservation - Power Rinser	N2180
T&S Brass and Bronze Works	B-107-C